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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2012 Navy **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b>				<b>R-1 ITEM NOMENCLATURE</b>							
1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>				PE 0603654N: <i>JT Service Explosive Ordn Dev</i>							
<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	20.253	26.873	33.654	1.500	35.154	50.659	42.061	29.793	34.219	Continuing	Continuing
0377: <i>JT Service Expl Ord Disp System</i>	12.137	17.882	17.935	1.500	19.435	27.859	22.009	14.366	13.582	Continuing	Continuing
1317: <i>EOD Diving System</i>	3.371	3.611	3.234	-	3.234	4.496	2.866	2.921	4.955	Continuing	Continuing
3177: <i>Joint Counter Radio-Controlled IED Elec Warfare</i>	-	0.471	-	-	-	-	-	-	-	0.000	0.471
4023: <i>VSW MCM/Force Protection UUV</i>	4.745	4.909	12.485	-	12.485	18.304	17.186	12.506	15.682	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

This is a Joint Service Program. This program provides for the development of Explosive Ordnance Disposal tools and equipment for use by all military services. The responsibility is assigned to the Navy as single service manager, by Department of Defense Directive 5160.62 of 26 April 1989, for management of the Joint Service Explosive Ordnance Disposal Research and Development Program. Proliferation of sophisticated types of foreign and domestic ordnance and Improvised Explosive Devices necessitate a continuing development program to provide Explosive Ordnance Disposal personnel of all military services with the special equipment and tools required to support this mission. This program also provides life support related equipment necessary to support the performance of Navy Explosive Ordnance Disposal tasks underwater. This equipment must have inherently low acoustic and magnetic signatures in order to allow the Explosive Ordnance Disposal technician to safely approach, render-safe and dispose of sea mines and other underwater ordnance. This program also provides force protection of all military services against Radio Controlled Improvised Explosive Devices (RCIED) to prevent initiation. The Navy has been designated as DOD Executive Agent and Single Manager for Military Ground-Based Counter Radio-Controlled Improvised Explosive Electronic Warfare (CREW) Technology by DOD Directive 5101.14 of 11 June 2007, requiring RDT&E to develop capabilities that meet joint requirements.

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603654N: <i>JT Service Explosive Ordn Dev</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Previous President's Budget	20.966	25.873	25.261	-	25.261
Current President's Budget	20.253	26.873	33.654	1.500	35.154
Total Adjustments	-0.713	1.000	8.393	1.500	9.893
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.121	-			
• Program Adjustments	-	1.000	9.991	1.500	11.491
• Section 219 Reprogramming	-0.592	-	-	-	-
• Rate/Misc Adjustments	-	-	-1.598	-	-1.598

**Change Summary Explanation**

Program Adjustments: FY12 \$9,893K in Total Adjustments: Increase EOD Underwater Unmanned Vehicle (UUV) Development (\$3,600K), EOD Underwater Unmanned Vehicle Neutralization (UUV-N) (\$2,400K), Diver Life Support (\$500K), and EOD High Fidelity Weapons Mass Destruction (HFWI) (\$4,400K), Joint Service EOD Robotics OCO (\$1,500K) and decrease for Misc. Adjustments (\$-2,507K).

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603654N: JT Service Explosive Ordn Dev				PROJECT 0377: JT Service Expl Ord Disp System			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0377: JT Service Expl Ord Disp System	12.137	17.882	17.935	1.500	19.435	27.859	22.009	14.366	13.582	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
Provides Explosive Ordnance Disposal personnel of all military services with the specialized equipment and tools required to support their mission of detection/location, identification, render-safe, recovery, field and laboratory evaluation, and disposal of unexploded ordnance (UXO) that is a threat to military operations, installations, personnel, or material. UXO includes foreign and domestic, both conventional and non-conventional, including Improvised Explosive Devices (IEDs). High Fidelity Weapons Mass Destruction performs detection and identification of hazardous materials contained in devices using radiological and biological means. Advanced EOD Robot System consists of multiple interoperable robot systems. The first class of robot and the architecture for the system will be developed first, then the other classes of robots will be developed. Project Unit 0377: FY11 OCO Request: Continuous Improvement for the MK1 & MK2 Joint Service EOD robots used by EOD technicians when responding to IED incidents in OIF and OEF.											
* FY11 issue paper submitted to realign zero sum funding from project 3177 to 0377.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: EOD FUTURE RADIOGRAPHIC SYSTEMS (FRS) AND EOD DECISION SUPPORT SYSTEMS (DSS) Articles:							6.580	4.657	4.389	-	4.389
							0	0	0		0
FY 2010 Accomplishments: Developed Production decision for EOD Future Radiographic System (FRS) and initiate development of increment one for the system.											
FY 2011 Plans: Conduct development of incremental capabilities for the JEOD Decision Support System (DSS) and Future Radiographic System (FRS).											
FY 2012 Base Plans: Develop Continuous Improvements of incremental capabilities for JEOD Decision Support System (DSS) and continue development of Future Radiographic Systems (FRS).											
Title: HIGH FIDELITY WEAPONS MASS DESTRUCTION (WMD) Articles:							0.957	3.144	5.700	-	5.700
							0	0	0		0
FY 2010 Accomplishments:											

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011		
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Continued technology Development for JLONS in preparation for the formal acquisition program. <b>FY 2011 Plans:</b> Initiate project to expand EOD's capability to detect and/or identify potential Weapons Mass Destruction (WMD) threats. <b>FY 2012 Base Plans:</b> Continue to develop a family of systems to address the capabilities gaps in detection and identification of Weapons Mass Destruction (WMD) threats.					
<b>Title:</b> EOD ROBOTICS  <b>Articles:</b>	3.100 0	4.000 0	5.063 0	-	5.063 0
<b>FY 2010 Accomplishments:</b> Developed Advanced EOD Robot System acquisition project. Advanced EOD Robot System consists of multiple interoperable robot systems. The first class of robot and the architecture for the system will be developed first, then the other classes of robots will be developed. <b>FY 2011 Plans:</b> Continue development of Advanced EOD Robot System and develop improved capabilities for existing EOD robot configurations. <b>FY 2012 Base Plans:</b> Continue development of Advanced EOD Robot System and develop improved capabilities for existing EOD robot configurations.					
<b>Title:</b> TCM AN/PLT-XXX SYSTEMS/ELECTRONIC SAFE/ARM FUZES  <b>Articles:</b>	1.000 0	3.181 0	1.741 0	-	1.741 0
<b>FY 2010 Accomplishments:</b> Continued improvements to fielded TCM systems to include loadset refinements. <b>FY 2011 Plans:</b> Initiate project to develop capability to determine the state of (or neutralize) Electronic Safe/Arm Fuzes for EOD purpose. <b>FY 2012 Base Plans:</b>					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011				
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603654N: JT Service Explosive Ordn Dev		PROJECT 0377: JT Service Expl Ord Disp System		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Continue project development capabilities to determine the state of (or neutralize) Electronic Safe/Arm Fuzes for EOD purpose.						
Title: EOD ROBOTICS OCO						
Articles:		-	1.000	-	1.500	1.500
			0	0	0	0
FY 2011 Plans: Planned Program OCO (\$1M): Continuous Improvement for the MK1 and MK2 Joint Service EOD robots used by EOD technicians when responding to IED incidents in OIF and OEF. Funding required to provide for development of these theater specific tools.						
FY 2012 Base Plans: N/A						
FY 2012 OCO Plans: Joint Service EOD Robot Continuous Improvement - The MK 1 and MK 2 EOD robots are the primary tool used by EOD technicians when responding to IED incidents in OEF-A. There are unique tools for robot uses that need to be developed to counter emergent threats in both theaters (OED-A and OND) that are not part of the current program of record. Funding is required to provide for development of these theater specific tools.						
Title: UNMANNED AERIAL SYSTEMS						
Articles:		0.500	1.900	1.042	-	1.042
		0	0	0		0
FY 2010 Accomplishments: Initiated project to develop EOD required capabilities Unmanned Aerial Systems.						
FY 2011 Plans: Continue development of Unmanned Aerial Systems Capabilities for the EOD community.						
FY 2012 Base Plans: Continue development of Unmanned Aerial Systems Capabilities for the EOD community.						
Accomplishments/Planned Programs Subtotals		12.137	17.882	17.935	1.500	19.435

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	<b>PROJECT</b> 0377: <i>JT Service Expl Ord Disp System</i>
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**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPN/5509: <i>EOD Equipment</i>	5.303	2.000	13.200	0.000	13.200	10.200	10.580	10.162	7.900	0.000	59.345

**D. Acquisition Strategy**

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new subprojects. The AOA addresses and emphasizes acquisition strategies of the most cost-effective solution over the subprojects' life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included.

**E. Performance Metrics**

Conducted Full Rate Production Decision Review for JEOD Decision Support System (DSS), initiating production. Conducted Interim Progress Review for EOD Future Radiographic System (FRS).

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy										DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603654N: JT Service Explosive Ordn Dev				PROJECT 0377: JT Service Expl Ord Disp System					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WR	EODTD:Indian Head, MD	115.241	9.093	Oct 2010	10.041	Oct 2011	1.000	Oct 2011	11.041	Continuing	Continuing	Continuing
Software Development	WR	EODTD:Indian Head, MD	18.434	1.800	Oct 2010	2.000	Oct 2011	0.500	Oct 2011	2.500	Continuing	Continuing	Continuing
ILS	WR	EODTD:Indian Head, MD	42.920	1.750	Oct 2010	1.850	Oct 2011	-		1.850	Continuing	Continuing	Continuing
Subtotal			176.595	12.643		13.891		1.500		15.391			
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/CPFF	ITT:Arlington, VA	5.971	0.300	Oct 2010	0.176	Oct 2011	-		0.176	Continuing	Continuing	Continuing
Subtotal			5.971	0.300		0.176		-		0.176			
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	EODTD:Indian Head, MD	68.347	2.300	Oct 2010	2.302	Oct 2011	-	Oct 2011	2.302	Continuing	Continuing	Continuing
Operation Test & Evaluation	WR	EODTD:Indian Head, MD	9.633	0.300	Oct 2010	0.300	Oct 2011	-		0.300	Continuing	Continuing	Continuing
Subtotal			77.980	2.600		2.602		-		2.602			

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 Navy										<b>DATE:</b> February 2011			
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<b>Management Services (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Program Manangement Support	WR	EODTD:Indian Head, MD	7.843	0.435	Oct 2010	0.500	Oct 2011	-		0.500	Continuing	Continuing	Continuing
Miscellaneous	WR	EODTD:Indian Head, MD	14.148	1.904	Oct 2010	0.766	Oct 2011	-		0.766	Continuing	Continuing	Continuing
<b>Subtotal</b>			21.991	2.339		1.266		-		1.266			

  

	<b>Total Prior Years Cost</b>	<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	282.537	17.882		17.935		1.500		19.435			

  

**Remarks**



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	<b>PROJECT</b> 0377: <i>JT Service Expl Ord Disp System</i>

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Navy		<b>DATE:</b> February 2011
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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	PROJECT 0377: <i>JT Service Expl Ord Disp System</i>

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Navy			<b>DATE:</b> February 2011
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**Schedule Details**

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 0377</b>				
Title: EOD MAN TRANSPORTABLE ROBOTIC SYSTEM	1	2010	3	2010
Block Upgrade (PROD)	1	2010	3	2010
Title: MUNS (Formerly JLONS)	1	2010	4	2012
Technology Development	1	2010	4	2012
Title: EOD DECISION SUPPORT SYSTEM	1	2010	4	2016
Increment I Deployment	1	2010	4	2010
Development Phase 1	1	2011	4	2011
Deployment 1	3	2011	4	2011
Continuous Improvement 1	1	2012	4	2016
Title: ELECTRONIC SAFE/ARE FUZE -IED/UXO	1	2010	4	2015
Program Initiation 1	2	2011	2	2011
Development 3	2	2011	3	2012
Testing 1	3	2012	2	2013
Interim Progress Review 1	2	2013	2	2013
EDM Fabrication 1	3	2013	4	2013
Final Testing 1	1	2014	3	2014
Production Decision 1	3	2014	3	2014
Production 1	3	2014	4	2015
Title: TCM, AN/PLT-XXX (CLASSIFIED III)	1	2010	4	2015
Continuous Improvement 2	1	2010	4	2015
Title: EOD FUTURE RADIOGRAPHIC SYSTEM	1	2010	4	2013

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
EDM Fabrication 2	1	2010	2	2010
Final Testing 2	2	2010	3	2011
Production Decision 2	3	2011	3	2011
Production 2	1	2012	4	2013
Increment I (DEV)	1	2011	2	2012
Increment I (TEST)	2	2012	3	2012
Increment I (PROD DEV)	3	2012	3	2012
Increment I (PROD)	1	2013	4	2013
Title: EOD UNMANNED AERIAL SYSTEM	1	2010	3	2013
Program Initiation 2	2	2010	2	2010
Development 5	2	2010	2	2012
Testing 3	3	2012	1	2013
Limited Production Decision	3	2013	3	2013
Title: JS EOD WMD	1	2010	4	2016
Program Initiation 3	1	2011	1	2011
Research	2	2011	4	2013
Testing 4	4	2011	2	2013
Procurement	3	2012	2	2013
Increment I (RESEARCH)	1	2013	4	2016
Increment I (TESTING)	4	2013	1	2015
Increment I (PROC DECISION)	2	2015	2	2015
Increment II (RESEARCH)	2	2015	4	2016
Title: ADVANCED EOD ROBOT SYSTEM	1	2010	4	2016
Program Initiation 4	2	2010	2	2010

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Development # 1	2	2010	2	2012
Program Review 1	2	2012	2	2012
Testing (#1)	2	2012	2	2013
Production Decision (#1)	2	2013	2	2013
Development (# 2 & 3)	1	2013	4	2014
Program Review 2	2	2014	2	2014
Testing (# 2 & 3)	4	2014	4	2015
Production Decision (# 2 & 3)	3	2015	3	2015
Production 3	1	2014	4	2016
Continous Improvement 3	1	2015	4	2016

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
1317: EOD Diving System	3.371	3.611	3.234	-	3.234	4.496	2.866	2.921	4.955	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
Provides for development of Diver Safety/Life Support Equipment, Advanced Diver Integrated Sensors and Advanced Firing Systems to support Navy Explosive Ordnance Disposal (EOD) underwater operations. The equipment must have inherently low acoustic and magnetic signatures in order to allow the EOD divers to safely approach, render-safe, recover, exploit, and dispose of underwater explosive threats to include sea mines, limpet mines and unexploded ordnance. This project supports the Naval Mine Warfare Certification Plan.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<b>Title:</b> DIVER SAFETY & LIFE SUPORT SYSTEMS  <b>Articles:</b>							0.831	0.879	1.759	-	1.759
							0	0	0		0
<b>Description:</b> Diver Safety & Life Support Systems: Develop diver safety tools to include more capable life support systems for EOD, and Mobile Diving & Salvage Units (MDSU) operations. Specific tools include but are not limited to Underwater Breathing Apparatus (UBA), specialized dive masks, heads-up displays, and emergency life support systems.											
<b>FY 2010 Accomplishments:</b> Developed and tested improvements to the Very Shallow Water (VSW)/EOD UBA to enhance diver safety. Develop and test an EOD system (METRES) to detect and measure EOD diver and MCM equipment influence signatures.											
<b>FY 2011 Plans:</b> Complete testing and gain approval for use for the VSW/MCM UBA. Complete METRES testing.											
<b>FY 2012 Base Plans:</b> Initiate a VSW/MCM UBA program to develop modern and safer UBA. Develop and test UW Lift System for EOD and VSW/MCM missions.											
<b>Title:</b> ADVANCED DIVER INTEGRATED SENSORS  <b>Articles:</b>							2.090	2.282	1.225	-	1.225
							0	0	0		0

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603654N: JT Service Explosive Ordn Dev		PROJECT 1317: EOD Diving System	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<b>Description:</b> Develop Advanced Diver Integrated Sensors equipment to enhance EOD and MDSU ability to detect, neutralize and gather intelligence on underwater targets of interest. Requirements include Diver Hull Inspection Navigation System (DHINS) and improvements to the Underwater Imaging System (UIS).					
<b>FY 2010 Accomplishments:</b> Completed system integration and testing of the DHINS final production configuration.					
<b>FY 2011 Plans:</b> Develop and insert mature technologies to the DHINS and UIS as part of a continuous improvement program (CIP) to enhance performance in harsh environments.					
<b>FY 2012 Base Plans:</b> Conduct testing of diver held sensors. As part of a Continuous Improvement Program (CIP) develop and test technologies for integration into DHINS and UIS.					
<b>Title:</b> ADVANCED FIRING SYSTEM <div>Articles:</div>	0.450 0	0.450 0	0.250 0	-	0.250 0
<b>Description:</b> Develops new acquisitions and product improvements to existing systems for below and above water neutralization of underwater threats to support EOD and MDSU operations.					
<b>FY 2010 Accomplishments:</b> Continued system integration and testing of the spiral 2 AFS.					
<b>FY 2011 Plans:</b> Test improvements to the AFS to enhance system effectiveness. Initiate Weapons System Explosives Safety Review.					
<b>FY 2012 Base Plans:</b> Conduct Analysis Of Alternative (AOA). Develop improvements to AFS to increase system performance and capabilities.					
Accomplishments/Planned Programs Subtotals	3.371	3.611	3.234	-	3.234

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	<b>PROJECT</b> 1317: <i>EOD Diving System</i>	

**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPN/0977a: <i>Underwater EOD Program (Cost Code UQ034)</i>	2.200	8.900	4.800	0.000	4.800	4.500	1.000	4.000	4.000	0.000	29.400
• 0340: <i>PANMC</i>	0.216	0.000	0.679	0.000	0.679	0.206	2.082	0.000	0.821	0.000	4.004
• OPN/0977b: <i>Underwater EOD Program (Cost Code UQ036)</i>	0.000	0.000	1.200	0.000	1.200	0.000	2.000	1.200	1.200	0.000	5.600

**D. Acquisition Strategy**

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new sub-projects. The AOA addresses and emphasizes acquisition strategies of the most cost-effective solution over the sub-projects life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included.

**E. Performance Metrics**

Research and Develop technologies for the design of Diver Safety Systems, and Advanced Underwater Firing Systems used to render safe, recover, exploit, and dispose of sea limpet mines and unexploded ordnance.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy										DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				PE 0603654N: JT Service Explosive Ordn Dev				1317: EOD Diving System					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	WR	EODTECHDIV:IH, MD	38.235	0.967	Oct 2010	0.795	Oct 2011	-		0.795	Continuing	Continuing	Continuing
Software Development	WR	EODTECHDIV:IH MD	3.492	0.300	Oct 2010	0.264	Oct 2011	-		0.264	Continuing	Continuing	Continuing
Systems Engineering	WR	EODTECHDIV:IH MD	8.228	-		-		-		-	0.000	8.228	
ILS	WR	EODTECHDIV:IH MD	11.916	-		-		-		-	0.000	11.916	
Systems Engineering	WR	NSWC:Panama City	0.820	0.250	Oct 2010	0.231	Oct 2011	-		0.231	Continuing	Continuing	Continuing
Systems Engineering	WR	SPAWAR:San Diego	1.500	0.500	Oct 2010	0.461	Oct 2011	-		0.461	Continuing	Continuing	Continuing
Subtotal			64.191	2.017		1.751		-		1.751			
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support1	C/CPFF	ITT:Arlington VA	3.537	-		-		-		-	0.000	3.537	
Program Management Support2	C/CPFF	ITT:Arlington VA	2.051	0.430	Oct 2010	0.396	Oct 2011	-		0.396	Continuing	Continuing	Continuing
Integrated Logistics Support	WR	Not Specified:Not Specified	-	-		-		-		-	0.000	0.000	
Configuration Management	WR	Not Specified:Not Specified	-	-		-		-		-	0.000	0.000	
Technical Data	WR	Not Specified:Not Specified	-	-		-		-		-	0.000	0.000	
GFE	WR	Not Specified:Not Specified	-	-		-		-		-	0.000	0.000	
Award Fees	WR	Not Specified:Not Specified	-	-		-		-		-	0.000	0.000	
Subtotal			5.588	0.430		0.396		-		0.396			

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2012 Navy</b>											<b>DATE:</b> February 2011		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				<b>R-1 ITEM NOMENCLATURE</b> PE 0603654N: JT Service Explosive Ordn Dev				<b>PROJECT</b> 1317: EOD Diving System					

  

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Development Test & Evaluation	WR	EODTECHDIV:IH MD	4.938	0.750	Oct 2010	0.692	Oct 2011	-		0.692	Continuing	Continuing	Continuing
Operational Test & Evaluation	WR	EODTECHDIV:IH MD	1.560	-		-		-		-	0.000	1.560	
<b>Subtotal</b>			6.498	0.750		0.692		-		0.692			

  

<b>Management Services (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Program Management Support	WR	EODTECHDIV:IH MD	8.413	0.350	Oct 2010	0.330	Oct 2011	-		0.330	0.000	9.093	
Miscellaneous	WR	NSWC, Activities:Not Specified	6.709	0.064	Oct 2010	0.065	Oct 2011	-		0.065	0.000	6.838	
Acquisition Workforce Fund	Various	Various:Various	0.013	-		-		-		-	0.000	0.013	
<b>Subtotal</b>			15.135	0.414		0.395		-		0.395	0.000	15.944	

  

			<b>Total Prior Years Cost</b>	<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			91.412	3.611		3.234		-		3.234			

  

**Remarks**

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	PROJECT 1317: <i>EOD Diving System</i>

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Navy			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	<b>PROJECT</b> 1317: <i>EOD Diving System</i>	

**Schedule Details**

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 1317</b>				
Title: ADVANCED FIRING SYSTEMS	1	2010	4	2016
System Integration/Testing 1	1	2010	2	2012
System Integration/Testing (Continue)	1	2014	2	2014
Production Decision/ECP Approval1	2	2012	2	2012
Production Decision/ECP Approval (Continue) 1	2	2014	2	2014
Production/Fleet Retrofit 1	1	2010	4	2010
Production/Fleet Retrofit (Continue) 1	2	2012	4	2013
Production/Fleet Retrofit (Continue) 2	2	2014	4	2016
Title: DIVER SAFETY & LIFE SUPPORT	1	2010	4	2016
System Integration/Testing 2	1	2010	2	2014
Systems Integration/Testing (Continue)	1	2015	4	2016
Production Decision/ECP Approval 2	3	2010	3	2010
Production Decision/ECP Approval (Continue) 2	3	2011	3	2011
Production Decision/ECP Approval (Continue) 3	3	2013	3	2013
Production Decision/ECP Approval (Continue)	4	2015	4	2015
Production/Fleet Retrofit (Continue) 3	3	2010	4	2012
Production/Fleet Retrofit (Continue) 4	2	2014	4	2016
Title: ADVANCED DIVER INTEGRATED SENSORS	1	2010	4	2016
System Integration/Testing 3	1	2010	4	2016
Production Decision/ECP Approval (Continue) 4	4	2010	4	2010
Production Decision/ECP Approval (Continue) 5	2	2012	2	2012

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	<b>PROJECT</b> 1317: <i>EOD Diving System</i>

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Production Decision/ECP Approval (Continue) 6	2	2015	2	2015
Production/Fleet Retrofit 3	1	2010	4	2013
Production/Fleet Retrocit (Continue)	2	2015	4	2016

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy								<b>DATE:</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0603654N: <i>JT Service Explosive Ordn Dev</i>				<b>PROJECT</b> 3177: <i>Joint Counter Radio-Controlled IED Elec Warfare</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
3177: <i>Joint Counter Radio-Controlled IED Elec Warfare</i>	-	0.471	-	-	-	-	-	-	-	0.000	0.471
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**A. Mission Description and Budget Item Justification**

Provides for the research, development, for all military services against Radio Controlled Improvised Explosive Devices (RCIED) to prevent initiation. The Navy has been designated as DOD Executive Agent and Single Manager for Military Ground-Based Counter Radio-Controlled Improvised Explosive Electronic Warfare (CREW) Technology by DOD Directive 5101.14 of 11 June 2007, requiring RDT&E to develop capabilities that meet joint requirements. Utilize Joint requirements to provide a system of systems approach for a suite of equipment for mounted, dismounted and fixed site operations. CREW development to make rapid improvements to performance, supportability and affordability.

\* FY11 funding was incorrectly placed in PE 0603654N. Funds should be in PE 0604653N.

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
<b>Title:</b> Joint Counter Radio-Controlled IED Elec Warfare  <div style="text-align: right;"><b>Articles:</b></div> <b>FY 2011 Plans:</b> Provides for the development, testing, and evaluation of Joint CREW modeling and simulation efforts and upgrades to Joint CREW tactical decision aids.  *FY11 funding was incorrectly placed in PE 0603654N. Funds should be in PE 0604653N.	-	0.471 0	-	-	-
<b>Accomplishments/Planned Programs Subtotals</b>	-	0.471	-	-	-

**C. Other Program Funding Summary (\$ in Millions)**  
N/A

**D. Acquisition Strategy**

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new subprojects. The AOA addresses and emphasizes acquisition strategies of the most cost effective solution over subprojects' life-cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included. Procurements across the services will be combined to gain quantity discounts.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	<b>PROJECT</b> 3177: <i>Joint Counter Radio-Controlled IED Elec Warfare</i>

**E. Performance Metrics**

Gate 6 Milestone B complete 10 Jul 2009; Contract for preliminary design review awarded 01 Oct 2009; Milestone C anticipated Q4 FY11.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603654N: JT Service Explosive Ordn Dev				PROJECT 4023: VSW MCM/Force Protection UUV			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
4023: VSW MCM/Force Protection UUV	4.745	4.909	12.485	-	12.485	18.304	17.186	12.506	15.682	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
Provides for development of affordable expeditionary, unmanned underwater systems to support Explosive Ordnance (EOD). Mobile Diving and Salvage Units, and Very Shallow Water (VSW) and Underwater Mine Countermeasures (UMCM) mission operations. The equipment must be highly portable in order to support the Navy EOD technician to safely approach, render safe, recover, exploit and dispose of underwater explosive threats to include sea mines, limpet mines and unexploded ordnance. Provides support for the Navy's high priority missions of Maritime Homeland Defense, MCM, including clandestine reconnaissance and mine clearance in support of amphibious operations. Development of EOD UUV systems to support localization render-safe and detailed intelligence gathering of UXO including Underwater Improvised Explosive Devices. This project supports the Naval Mine Warfare Certification Plan.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: VSW MCM/Force Protection UUV							4.745	4.909	12.485	-	12.485
Articles:							0	0	0		0
Description: This program supports development, testing and Fleet approval for evolving generations of affordable, expenditionary Unmanned Underwater Vehicles (UUV), support equipment, and common operator interface systems to address validated requirements in support of Explosive Ordnance Disposal and VSW UMCM mission areas. Mission areas include: open and confined areas, hulls, piers and pilings to search, classify, map, re-acquire, identify, and neutralize sea and limpet mines and underwater improvised explosive devices.											
FY 2010 Accomplishments: Continued UUV-N UOES testing. Inserted mature technologies and validate system retrofit upgrades to VSW MCM and BULS UUVs (continuous improvement program (CIP)) to enhance performance in harsh environments in accordance with ONR technology transition agreements (TTAs). Transitioned ONR Hull UUV Localization System (HULS) Rapid Technology Transition initiative. Begun UOES prototype testing and validation of HULS.											
FY 2011 Plans: Continue UUV-N UOES testing and re-validate UUV-N AOA requirements document. Insert mature technologies and validate systems retrofit upgrades to VSW MCM and BULS UUVs CIP to enhance performance in harsh environments in accordance with ONR technology transition agreements (TTAs). Continue UOES testing and											

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	<b>PROJECT</b> 4023: <i>VSW MCM/Force Protection UUV</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
validation of HULS to support requirements re-validation and limited production decision for a preliminary operational capability.					
<b><i>FY 2012 Base Plans:</i></b> Leverage prior UOES testing and ONR Science and Technology (S&T) investments in standoff neutralization capabilities to initiate 1st increment of UUV-Neutralization (UUV-N) program to develop standoff neutralization capabilities to counter naval mines and other underwater explosive threats. Insert mature technologies and validate system retrofit to UMCM UUV systems as incremental capability improvement packages to enhance performance in harsh environments in accordance with CNO/ONR technology transition agreements. Complete HULS validation testing to support fielding of baseline system. Begin development of technology in support of capability upgrades to UUV systems insertion retrofit to HULS and UUV-N systems as the next increment capability improvement package to enhance performance in complex areas of ship hulls, piers and pilings and other certified areas. Continue to develop Common Operator Interface Navy (COIN).					
<b>Accomplishments/Planned Programs Subtotals</b>	4.745	4.909	12.485	-	12.485

**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPN/0977: <i>Underwater EOD Program (Cost Code UQ034)</i>	7.350	1.000	6.271	0.000	6.271	8.574	12.070	14.232	21.997	0.000	71.494

**D. Acquisition Strategy**

Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new sub-projects. The AOA addresses and emphasizes acquisitions strategies of the most cost-effective solution over the sub-projects' life -cycle. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modifications), non-developmental item (including modifications), and lastly, developmental programs. Contracting for RDT&E, if required is always competitive and when feasible, production options are included.

This ongoing program capitalizes on a User Operational Evaluation System (UOES) effort involving Fleet operators engaged in tactical experimentation with prototype UUVs prior to fielding baseline systems and capability improvement package increments. These UUV operators also participate in detailed requirements analyses and definition. Operational capabilities with UUV have been realized at designated operational units, with a competitive acquisition strategy. The addition of enhanced capabilities through an evolutionary acquisition approach to the UUV toolbox is programmed for delivery in accordance with approved CNO requirements and ONR TTAs. Further improvements to the toolbox to add basic mine and underwater explosive threats neutralization capabilities will be pursued.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	<b>PROJECT</b> 4023: <i>VSW MCM/Force Protection UUV</i>

**E. Performance Metrics**

Research and Develop technologies for the design of Unmanned Underwater Systems to provide enhanced fleet capabilities to locate, classify, and neutralized mines and unexploded ordnance.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy											DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603654N: JT Service Explosive Ordn Dev				PROJECT 4023: VSW MCM/Force Protection UUV						
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Primary Hardware Development	WR	NSWC, Activities:Not Specified	-	-		1.723	Oct 2011	-		1.723	0.000	1.723		
Systems Engineering	WR	NSWC, Activities:Not Specified	-	-		1.435	Oct 2011	-		1.435	0.000	1.435		
Primary Hardware Development	WR	EODTECHDIV:IH, MD	14.697	1.541	Oct 2010	1.961	Oct 2011	-		1.961	Continuing	Continuing	Continuing	
Systems Engineering	WR	EODTECHDIV:IH, MD	10.126	0.900	Oct 2010	1.000	Oct 2011	-		1.000	Continuing	Continuing	Continuing	
Subtotal			24.823	2.441		6.119		-		6.119				
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Program Management Support	C/CPFF	ITT:ARLINGTON, VA	3.041	0.600	Oct 2010	1.519	Oct 2011	-		1.519	Continuing	Continuing	Continuing	
Subtotal			3.041	0.600		1.519		-		1.519				
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Developmental Test & Evaluation	WR	NSWC, Activities:Not Specified	-	-		1.792	Oct 2011	-		1.792	0.000	1.792		
Operational Test & Evaluation	WR	NSWC, Activities:Not Specified	-	-		0.300	Oct 2011	-		0.300	0.000	0.300		
Developmental Test & Evaluation	WR	EODTECHDIV:IH, MD	5.396	1.250	Oct 2010	1.382	Oct 2011	-		1.382	Continuing	Continuing	Continuing	
Operational Test & Evaluation	WR	EODTECHDIV:IH, MD	1.224	0.200	Oct 2010	0.231	Oct 2011	-		0.231	Continuing	Continuing	Continuing	
Subtotal			6.620	1.450		3.705		-		3.705				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy										DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603654N: JT Service Explosive Ordn Dev				PROJECT 4023: VSW MCM/Force Protection UUV					
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	WR	EODTECHDIV:IH, MD	1.593	0.250	Oct 2010	0.677	Oct 2011	-		0.677	Continuing	Continuing	Continuing
Miscellaneous	WR	NSWC, Activities:Not Specified	0.975	0.168	Oct 2010	0.465	Oct 2011	-		0.465	Continuing	Continuing	Continuing
DAWDF	Various	Not Specified:Not Specified	0.018	-		-		-		-	0.000	0.018	
Subtotal			2.586	0.418		1.142		-		1.142			
			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			37.070	4.909		12.485		-		12.485			
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	R-1 ITEM NOMENCLATURE PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	PROJECT 4023: <i>VSW MCM/Force Protection UUV</i>

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Navy			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603654N: <i>JT Service Explosive Ordn Dev</i>	<b>PROJECT</b> 4023: <i>VSW MCM/Force Protection UUV</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 4023</b>				
Title: 2ND GENERATION (rEQUIRE & ID)/BULS	1	2010	2	2010
Incremental CIP1	1	2010	2	2010
Title: 3RD GENERATION (NEUTRALIZATION)	1	2010	3	2015
UOES Operational Eval System 1	1	2010	4	2010
Revalidate AOA	4	2010	4	2010
Requirements Validation	1	2011	4	2011
Development	1	2012	2	2014
Testing Final 1	1	2014	3	2015
Production Decision (Limited) 1	3	2015	3	2015
Title: 4th GENERATION (SEARCH-CLASSIFY & ID)	1	2012	4	2016
Test & Evaluation	1	2012	4	2016
Production/Retrofit Decision1	2	2012	2	2012
Production/Retrofit Decision2	2	2013	2	2013
Production/Retrofit Decision3	2	2014	2	2014
Production/Retrofit Decision4	2	2015	2	2015
Production/Retrofit Decision5	2	2016	2	2016
Title: HULS	1	2010	4	2016
UOES Operational Eval System	1	2010	3	2011
Revalidate Requirements	4	2011	2	2012
Testing Final	4	2011	2	2013
Production Decision (Limited)	2	2012	2	2012

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603654N: JT Service Explosive Ordn Dev		PROJECT 4023: VSW MCM/Force Protection UUV	
Events by Sub Project		Start		End	
		Quarter	Year	Quarter	Year
INCREMENTAL CIP		3	2010	4	2016